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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,358	02/27/2004 Stefan Ansorge		Q79917	5912
23373 SUGHRUE MI	7590 03/17/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVÁNIA AVENUE, N	HARPER, KEVIN C		
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER	
			2616	
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			03/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	Application No.		Applicant(s)				
		1	0/787,358		ANSORGE ET AL.				
		E	xaminer		Art Unit				
		Ke	evin C. Harper		2616				
Period fo	The MAILING DATE of this commur or Reply	nication appear	s on the cover she	et with the co	orrespondence ac	ldress			
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Issions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum signer to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. catutory period will ap will, by statute, cau	E OF THIS COMMI o. In no event, however, m oply and will expire SIX (6) se the application to become	UNICATION hay a reply be time MONTHS from to me ABANDONED	ely filed the mailing date of this of the control o				
Status									
1) 又	Responsive to communication(s) file	ed on 20 Dece	mber 2007						
· ·			tion is non-final.						
3)		<i>′</i> —		matters, pro	secution as to the	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) <u>1-15</u> is/are pending in the	application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	□ Claim(s) is/are allowed.								
	5)☑ Claim(s) is/are allowed. 6)☑ Claim(s) <u>1-15</u> is/are rejected.								
	Claim(s) is/are objected to.								
	claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
	on Papers		·						
		o Eveminer							
•	The specification is objected to by the		od or b\□ objector	d to by the E	ivaminor				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	Paper 5) Notice	riew Summary (r No(s)/Mail Da e of Informal Pa 					

Response to Arguments

Applicant's arguments concerning the optical network, unrecognized flow label and determining new spare paths in Kano have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Kano in view of Ravikanth.

Applicant's remaining arguments regarding Kano have been fully considered but they are not persuasive.

- 1. Applicant argued that Kano does not provide a path tag. However, the path tag is attached to packets in MPLS (paras. 4, 6, 11 and 34-35) and the path tag is used to provide a proper output port (fig. 2, IFout) based on forwarding information (fig. 1, items 11 and T) at each router.
- 2. Applicant argued that KANO does not provide an internal cross-connect. However, the routers (fig. 1) receive a packet on an input port and transmit the packet on an appropriate output port based on internal connections (item 12; para. 35).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the

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contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-5, 9 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kano (US 2002/0172150) in view of Ravikanth et al. (US 6,331,978).

- 1. Regarding claims 1, 3-4 and 14-15, Kano discloses a method of establishing a path through a transportation network comprising network elements (fig. 1, item 10). The method comprises the steps of assigning a traffic stream a tag (fig. 1), providing forwarding information (item 11; fig. 2), and routing the data stream according to the label (fig. 3; para. 44; note: selected output ports).
- 2. However, Kano does not disclose that the transmission signals are transported over physical connections and each transmission signal is divided into frames for a multiplex hierarchy. Ravikanth discloses transmitting a data stream (figs. 2-3; note: MPLS) over physical connections that have frames of the same length and being structured according to a multiplex hierarchy (col. 5, lines 1-7; col. 6, lines 52-54; note: MPLS over SONET). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to transport packets over frames in the invention of Kano in order to transmit data over legacy networks (Ravikanth, col. 1, lines 20-23; col. 2, lines 30-35 and 52-63).
- 3. Regarding claims 2 and 9, in Kano the method further comprises detecting a failure, and determining a preprogrammed cross-connection based on the tag to restore the path (fig. 1; fig. 6; fig. 8, step S22; fig. 9).
- 4. Regarding claim 5, in Kano a new output label is given (fig. 2, note: Lout differs from Lin).

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Claims 10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kano in view of Ravikanth as applied to claim 9 above, and in further view of Agrawal et al. (US 2004/0105383).

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5. Regarding claims 10 and 13, Kano in view of Ravikanth does not disclose determining new restoration paths. Agrawal discloses determining new restoration paths after a restoration path is put in use (para. 55). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to create new restoration paths in the invention of Kano in view of Ravikanth in order to provide a restoration for the current active path (Agrawal, para. 55).

Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kano (US 2002/0172150) in view of Ravikanth et al. (US 6,331,978) and Ohba et al. (US 2002/0176370).

Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kano in view of Ravikanth and Agrawal as applied to claim 10 above, and in further view of Ohba et al. (US 2002/0176370).

- 6. Regarding claims 6 and 11-12, Kano in view of Ravikanth discloses the system and method as described in the rejection of claim 1 above. Further, the method of Kano is performed by a network element or management facility (fig. 1) that comprises ports (para. 44), a low-level controller (item 10) and memory (item 11), a monitor (item 14), and a cross connect matrix (item 12).
- 7. However, Kano in view of Ravikanth does not disclose detecting an unknown label and routing determining an appropriate output port for the associated data. Ohba discloses detecting an unknown label (para. 210; fig. 14, step S2) and routing the data to an appropriate output port (step S13; para. 223; paras. 212-213). Therefore, it would have been obvious to one skilled in the art at

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the time the invention was made to route an unknown label in the invention of Kano in view of

Ravikanth in order to establish new paths in the network (Ohba, para. 223).

8. Regarding claims 7-8, in Kano the element comprises a high-level controller (item 13) for

determining resources (paras. 35-36).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can

normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Lynn Feild, can be reached at 571-272-2092. The centralized fax number for the Patent Office is

571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-

3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent

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the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kevin C. Harper/

Primary Examiner, Art Unit 2616

March 3, 2008